



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the paperwork Reduction Act of 1995, no persons required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Application Number	10/781,357
Filing Date	February 17, 2004
First Named Inventor	Anant V. Hegde et al.
Art Unit	3762
Examiner Name	Unknown
Attorney Docket Number	31513-701.501

Sheet	1	of	1
-------	---	----	---

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
RH		US-4,809,676	03/07/1989	Maynard L. Freeman	
		US-5,273,518	12/28/1993	Medtronic, Inc.	
		US-5,749,839	5/12/1998	Duke University	
		US-6,376,971	4/23/2002	SRI International	
		US-6,749,556	6/15/2004	SciMed Life Systems, Inc.	
		US-2004/0068220	4/8/2004	Lucien Alfred Couvillon	
		US-2003/0117044	6/26/2003	Matsushita Electric Works, Ltd.	
		US-2004/0167375	8/26/2004	Lucien A. Couvillon	
		US-2004/0010180	1/15/2004	Sean K. Scorvo	
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ² - Number ³ - Kind Code ⁴ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁵

Examiner Signature	/Rex Holmes/	Date Considered	01/29/2007
--------------------	--------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the paperwork Reduction Act of 1995, no persons required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/781,357
				Filing Date	February 17, 2004
				First Named Inventor	Anant V. Hegde
				Art Unit	3762
				Examiner Name	Rex R. Holmes
Sheet	1	Of	3	Attorney Docket Number	31513-701.501

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
RH	1.	US 2003/0214199 A1	11-20-2003	Heim et al.	
	2.	US 2004/0147803 A1	07-29-2004	Hegde et al.	
	3.	US 4,457,673	07-03-1984	Conley et al.	
	4.	US 4,583,523	04-22-1986	Kleinke et al.	
	5.	US 4,809,676	03-07-1989	Freeman	
	6.	US 4,813,952	03-21-1989	Khalafalla	
	7.	US 4,979,936	12-25-1990	Stephenson et al.	
	8.	US 5,429,584	07-04-1995	Chiu et al.	
	9.	US 6,109,852	08-29-2000	Shahinpoor et al.	
	10.	US 6,475,639 B2	11-05-2002	Shahinpoor et al.	
	11.	US 6,543,110 B1	04-08-2003	Pelrine et al.	
	12.	US 6,545,384 B1	04-08-2003	Pelrine et al.	
	13.	US 6,583,533 B2	06-24-2003	Pelrine et al.	
	14.	US 6,664,718 B2	12-16-2003	Pelrine et al.	
	15.	US 6,781,284 B1	08-24-2004	Pelrine et al.	
	16.	US 6,809,462 B2	10-26-2004	Pelrine et al.	
	17.	US 6,812,624 B1	11-02-2004	Pei et al.	
	18.	US 6,891,317 B2	05-10-2005	Pei et al.	
	19.	US 6,911,764 B2	06-28-2005	Pelrine et al.	
	20.	US 7,034,432 B1	04-25-2006	Pelrine et al.	
	21.	US 7,064,472 B2	06-20-2006	Pelrine et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ² - Number ³ - Kind Code ⁴ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ^o
--------------------	-----------------------	--	--------------------------------	--	---	----------------

Examiner Signature	/Rex Holmes/	Date Considered	01/29/2007
-----------------------	--------------	--------------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. *Applicant's unique citation designation number (optional). *See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. *Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). *For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. *Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. *Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the paperwork Reduction Act of 1995, no persons required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete if Known		
				Application Number	10/781,357	
				Filing Date	February 17, 2004	
				First Named Inventor	Anant V. Hegde	
				Art Unit	3762	
				Examiner Name	Rex R. Holmes	
Sheet	2	Of	3	Attorney Docket Number		31513-701.501

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ² - Number ³ - Kind Code ⁴ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁵
RH	22.	EP 0216042 B1	03-06-1991	Khalafalla		
	23.	WO 00/76288 A2	12-21-2000	Peters et al.		
	24.	WO 00/76288 A3	12-21-2000	Peters et al.		
	25.	WO 01/06575 A1	01-25-2001	SRI International		
	26.	WO 01/06579 A2	01-25-2001	SRI International		
	27.	WO 02/24254 A2	03-28-2002	Khaghani et al.		
	28.	WO 02/24255 A1	03-28-2002	Peters et al.		
	29.	WO 03/028787 A1	04-10-2003	Peters		
	30.	WO 03/107523 A1	12-24-2003	SRI International		
	31.	WO 92/08500 A1	05-29-1992	Chiu		
↓	32.	WO 99/04833 A1 (in French w/ English Abstract)	02-04-1999	Gruss et al.		

Examiner Signature	/Rex Holmes/	Date Considered	01/29/2007
--------------------	--------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. *Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the paperwork Reduction Act of 1995, no persons required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
				Application Number	10/781,357
				Filing Date	February 17, 2004
				First Named Inventor	Anant V. Hegde
				Art Unit	3762
				Examiner Name	Rex R. Holmes
Sheet	3	Of	3	Attorney Docket Number	31513-701.501

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
RH	33.	Electroactive Polymer Actuator and Devices. <i>Proceedings of SPIE</i> . (Yoseph Bar-Cohen ed. 2001.) Bellingham: SPIE	
	34.	BOND, Elaine et al. 2000. The Left Ventricular Assista Device. <i>American Journal of Nursing</i> 103 (1): 32-40.	
	35.	HELMAN, David N. et al. Cardiac Assist Devices: Chapter 22, Intracorporeal Support: The Intra-aortic Balloon Pump. 291-306. (Daniel J. Goldstein & Mehmet C. Oz eds. 2000) Armonk, New York: Futura Publishing Company.	
	36.	STRAND et al. Poly-L-Lysine induces fibrosis on alginate microcapsules via the induction of cytokines. <i>Department of Biotechnology, Norwegian University of Science and Technology, Trondheim</i> . (Abstract only)	
	37.	SUN, Benjamin C. Cardiac Assist Devices: Chapter 3, Device Selection. 27-36. (Daniel J. Goldstein & Mehmet C. Oz eds. 2000) Armonk, New York: Futura Publishing Company.	
	38.	VANDEVONDELE et al. 2003. RGD-grafted Poly-L-lysine-graft-(polyethylene glycol) Copolymers Block Nonspecific Protein Adsorption while Promoting Cell Adhesion. <i>Biotechnol. Bioeng.</i> 82(7): 784-90.	

Examiner Signature	/Rex Holmes/	Date Considered	01/29/2007
--------------------	--------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinda Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.